

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIM:

Claim 1 (Currently Amended): A high refraction film having a refractive index of from 1.55 to 2.40 comprising inorganic fine particles having an average particle diameter of from 1 to 200 nm comprising titanium dioxide as a main component, said titanium dioxide containing cobalt.

Claim 2 (Canceled)

Claim 3 (Previously Presented): The high refraction film of claim 1, wherein the cobalt is contained in an amount of from 0.05 to 30% by mass based on the mass of titanium.

Claim 4 (Previously Presented): The high refraction film of claim 1, wherein the cobalt is present in the interior of the inorganic fine particles.

Claim 5 (Canceled)

Claim 6 (Original): The high refraction film of claim 1, wherein said inorganic fine particles have a specific surface area of from 10 to 400 m²/g.

Claim 7 (Currently Amended): The high refraction film of claim 1, wherein said inorganic fine particles are coated with at least one compound selected from the group consisting of an inorganic compound, organic metallic compound and organic compound, which ~~lower~~ lowers or ~~eliminate~~ eliminates photocatalytic activity.

Claim 8 (Original): The high refraction film of claim 7, wherein the inorganic compound which lowers or eliminates photocatalytic activity contains at least one element selected from the group consisting of cobalt, aluminum and zirconium.

Claim 9 (Currently Amended): The high refraction film of claim 7, wherein said at least one compound ~~compounds~~ which ~~lower~~ lowers or ~~eliminate~~ eliminates photocatalytic activity ~~are~~ is an organic metal compound represented by the following general formula (I) ~~and or a~~ derivative thereof:



wherein R^1 represents a substituted or unsubstituted alkyl group or aryl group, R^2 represents a substituted or unsubstituted alkyl group or acyl group, m represents 0 or an integer of from 1 to 3 and n represents an integer of from 1 to 4, with the proviso that the sum of m and n is 4.

Claim 10 (Original): The high refraction film of claim 1, further comprising an organic compound binder.

Claim 11 (Original): The high refraction film of claim 1, wherein said inorganic fine particles are dispersed with a dispersant.

Claim 12 (Original): The high refraction film of claim 11, wherein said dispersant has an anionic group.

Claim 13 (Original): The high refraction film of claim 11, wherein said dispersant further has a crosslinkable or polymerizable functional group.

Claim 14 (Original): The high refraction film of claim 13, wherein said dispersant has a crosslinkable or polymerizable functional group at the side chain.

Claim 15 (Original): The high refraction film of claim 13, wherein said dispersant has a weight-average molecular weight of not lower than 1,000.

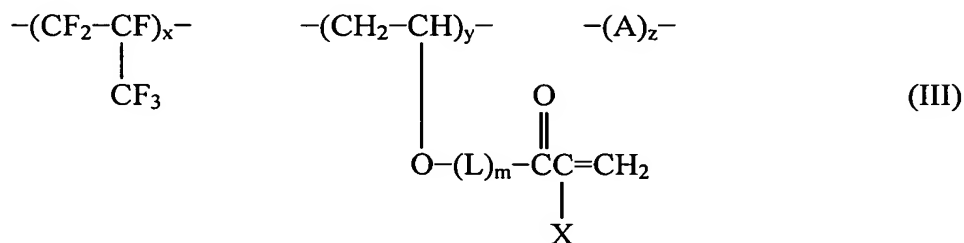
Claim 16 (Currently Amended): A coating composition for forming a high refraction film having a refraction index of from 1.55 to 2.40 comprising ~~an~~ inorganic fine particles having an average particle diameter of from 1 to 200 nm comprising as a main component titanium dioxide ~~containing~~ as a main component, and said titanium dioxide contains cobalt.

Claim 17 (Currently Amended): The coating composition for forming a high refraction film of claim 16, wherein said inorganic fine particles are coated with at least one compound selected from the group consisting of an inorganic compound, organic metallic compound and organic compound, which ~~lower~~ lowers or ~~eliminate~~ eliminates photocatalytic activity.

Claim 18 (Currently Amended): An anti-reflection film comprising a transparent support and ~~a high refraction film of claim 1 formed thereon~~ at least one of a high refraction layer and a low refraction layer formed thereon, wherein said high refraction layer is a layer having a refractive index of from 1.55 to 2.40 and a thickness in the range of from 30 to 200 nm, wherein the high refraction layer is an optical interference layer, the high refraction layer comprising inorganic fine particles having an average particle diameter of from 1 to 200 nm comprising titanium dioxide as a main component, and said titanium dioxide contains cobalt.

Claim 19 (Currently Amended): An anti-reflection film comprising a transparent support and at least one of a high refraction layer and a low refraction layer formed thereon, wherein said high refraction layer is a layer having a refractive index of from 1.55 to 2.40 comprising inorganic fine particles having an average particle diameter of from 1 to 200 nm comprising as a main component titanium dioxide containing as a main component, wherein said titanium dioxide contains cobalt, and said low refraction layer is a layer comprising a cured film of a copolymer as a main component comprising a repeating unit derived from a fluorine-containing vinyl monomer and a repeating unit having a (meth)acryloyl group in its side chain.

Claim 20 (Previously Presented): The anti-reflection film of claim 19, wherein said copolymer is a copolymer of the following general formula (III):



wherein L represents a C₁-C₁₀ connecting group, m represents 0 or 1, X represents a hydrogen atom or methyl group, A represents a repeating unit derived from an arbitrary vinyl monomer and may be constituted of a single component or a plurality of components, and x, y and z each represent mol% of the respective constituent and represent a value satisfying the relationships $30 \leq x \leq 60$, $5 \leq y \leq 70$ and $0 \leq z \leq 65$.

Claim 21 (Currently Amended): The anti-reflection film of claim 19, wherein said inorganic fine particles are coated with at least one compound selected from the group consisting of an inorganic compound, organic metallic compound and organic compound, which ~~lower~~ lowers or ~~eliminate~~ eliminates photocatalytic activity.

Claim 22 (Original): The anti-reflection film of claim 21, wherein the inorganic compound which lowers or eliminates photocatalytic activity contains at least one element selected from the group consisting of cobalt, aluminum and zirconium.

Claim 23 (Currently Amended): The anti-reflection film of claim 21, wherein said at least one compound ~~compounds~~ which ~~lower~~ lowers or ~~eliminate~~ eliminates photocatalytic activity ~~are~~ is an organic metal compound represented by the following general formula (I) ~~and~~ or a derivative thereof:



wherein R¹ represents a substituted or unsubstituted alkyl group or aryl group, R² represents a substituted or unsubstituted alkyl group or acyl group, m represents 0 or an integer of from 1 to 3 and n represents an integer of from 1 to 4, with the proviso that the sum of m and n is 4.

Claim 24 (Previously Presented): A process for the production of the anti-reflection film of claim 18, comprising providing the high refraction film on a transparent support.

Claim 25 (Original): A protective film for polarizing plate comprising the anti-reflection film of claim 18, wherein the contact angle of the surface of the transparent support on the side thereof opposite the side having said high refraction film with respect to water is not greater than 40 degrees.

Claim 26 (Previously Presented): A process for the production of the protective film for polarizing plate of claim 25, comprising providing the high refraction film on a transparent support.

Claim 27 (Original): A polarizing plate comprising a polarizing film and two protective films having said polarizing film interposed therebetween, wherein the anti-reflection film of claim 18 is used as at least one of the two protective films.

Claim 28 (Original): A polarizing plate comprising a polarizing film and two protective films having said polarizing film interposed therebetween, wherein the anti-reflection film of claim 18 is used as one protective film and an optically compensated film having optical isomerism is used as another protective film.

Claim 29 (Original): The polarizing plate of claim 28, wherein said optically compensated film has an optically isomeric layer provided on one surface of the transparent support, said optically isomeric layer has a compound having a discotic structure unit, the

surface of a disc of said discotic structure unit is oblique to the surface of the transparent support and the angle between the surface of a disc of said discotic structure unit and the surface of the transparent support changes with the distance from the transparent support.

Claim 30 (Previously Presented): An image display device having the anti-reflection film of claim 18 disposed on the image display surface thereof.

Claim 31 (Previously Presented): An image display device having the polarizing plate of claim 27 disposed on the image display surface thereof.

Claim 32 (Previously Presented): An image display device having the polarizing plate of claim 28 disposed on the image display surface thereof.

Claim 33 (New): A high refraction film having a refractive index of from 1.55 to 2.40 and a thickness in the range of from 30 to 200 nm, wherein the high refraction film is an optical interference layer, the high refraction film comprising inorganic fine particles having an average particle diameter of from 1 to 200 nm comprising titanium dioxide as a main component, and said titanium dioxide contains cobalt.

Claim 34 (New): A high refraction film having a refractive index of from 1.55 to 2.40 comprising an organic compound binder and inorganic fine particles having an average particle diameter of from 1 to 200 nm comprising titanium dioxide as a main component, and said titanium dioxide contains cobalt.

Claim 35 (New): A high refraction film having a refractive index of from 1.55 to 2.40 comprising inorganic fine particles having an average particle diameter of from 1 to 200 nm comprising titanium dioxide as a main component, wherein said titanium dioxide contains cobalt, and said titanium dioxide has a rutile crystal structure.

Claim 36 (New): A coating composition for forming a high refraction film having a refraction index of from 1.55 to 2.40 comprising an organic compound binder and inorganic fine particles having an average particle diameter of from 1 to 200 nm comprising titanium dioxide as a main component, and said titanium dioxide contains cobalt.

Claim 37 (New): An anti-reflection film comprising a transparent support and at least one of a high refraction layer and a low refraction layer formed thereon, wherein said high refraction layer is a layer having a refractive index of from 1.55 to 2.40 comprising an organic compound binder and inorganic fine particles having an average particle diameter of from 1 to 200 nm comprising titanium dioxide as a main component, and said titanium dioxide contains cobalt.

Claim 38 (New): An anti-reflection film comprising a transparent support and at least one of a high refraction layer and a low refraction layer formed thereon, wherein said high refraction layer is a layer having a refractive index of from 1.55 to 2.40 comprising inorganic fine particles having an average particle diameter of from 1 to 200 nm comprising titanium dioxide as a main component, wherein said titanium dioxide contains cobalt, and said titanium dioxide has a rutile crystal structure.

Claim 39 (New): An image display device comprising the anti-reflection film of claim 19 disposed on an image display surface thereof.

Claim 40 (New): An image display device comprising the anti-reflection film of claim 37 disposed on an image display surface thereof.

Claim 41 (New): An image display device comprising the anti-reflection film of claim 38 disposed on an image display surface thereof.